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WHAT IS A SEWING MACHINE?

It is a machine for making clothing and doing Sewing of all kinds.

Does it make the same kind of a stitch that a lady makes with her needle?

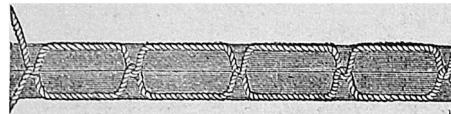
No; it makes other kinds.

What are they called?

"Lock Stitch," "Chain Stitch," and "Double Chain Stitch."

What is the difference?

Here is a picture of the Lock Stitch, as the thread looks when stitched into the cloth, only this is made larger and coarser than you may see it better.



No. 1.—LOCK STITCH.

It is made with two threads, one on each side of the cloth, and "locked" together in the centre. Hence it is called the "Lock Stitch." It cannot be pulled out, nor raveled, and there is only a single line of thread on each side of the seam.

Is the seam strong and firm?

Yes; just as firm as the cloth when properly made. It is the principal stitch made by sewing machines since their first invention.

How much thread does it take for a yard of seam?

About two yards and one half.

What is the principal machine that makes the Lock Stitch?

THE WHEELER & WILSON MACHINE.

What is the "Chain Stitch?"

Here is a picture of it.



No. 2.—CHAIN-STITCH.

It is such a stitch as the ladies make in knitting and crocheting, and it can be raveled in the same way.

Is it much used in Sewing?

No; because the seams made with it pull out so easily. Think of garments coming apart when one is in the street.

How much thread does it take for a yard of seam?

About four and a half yards; or nearly twice as much as the "Lock-Stitch."

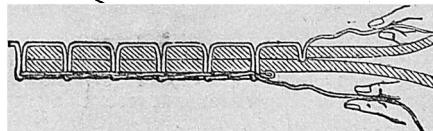
What is the principal machine making this stitch?

The Wilcox & Gibbs.

What is the "Double Chain-stitch?"

It is very much like the Single Chain Stitch, but is made with two threads.

Here is a picture of it.



No. 3.—DOUBLE CHAIN STITCH.

Can it be raveled?

Yes; and shows a ridge on one side.

What makes that ridge on the under side of the seam?

It is the looping and knotting of the two threads used.

Does that do any harm?

Yes; it wears off when garments are washed and ironed. It does not look well unless as embroidery. No one would like a handkerchief hemmed with it, or any seam made that shows. A handsome stitch, you know, only shows a single line of thread.

How much thread does it take for a yard of seam?

About six and one half (6½) yards. The most of any machine.

What machine makes this stitch?

The Grover & Baker.

Who use Sewing Machines?

The Wheeler & Wilson are used by Seamstresses, Dress Makers, Tailors, Manufacturers of Shirts, Collars, Skirts, Cloaks, Mantillas, Clothing, Hats, Caps, Corsets, Ladies' Boots and Shoes, Linen goods, Umbrellas, Parasols, etc. They work equally well upon silk, linen, woolen and cotton goods, with silk, cotton or linen thread. They will seam, quilt, gather, hem, fell, cord, braid, bind, and perform every species of sewing, making a beautiful and perfect stitch, alike on both sides of the article sewed.

How many Wheeler & Wilson machines have been sold?

Nearly 300,000.

How fast can the machine work?

The WHEELER & WILSON COMPANY has prepared tables showing, by actual experiments of four different workers, the time required to stitch each part of a garment by hand, and with the Wheeler & Wilson Sewing Machine. Subjoined is a summary of several of the tables:—

	BY MACHINE.	BY HAND.
	Hours. Minutes.	Hours. Minutes.
Gentlemen's Shirts.....	1 16	14 26
Frock Coats.....	2 88	16 35
Satin Vests.....	1 14	7 19
Linen Vests.....	0 48	5 14
Cloth Pants.....	0 51	5 10
Summer Pants.....	0 88	2 50
Silk Dress.....	1 13	8 27
Merino Dress.....	1 4	8 27
Calico Dress.....	0 57	6 37
Chemise.....	1 1	10 31
Moreen Skirt.....	0 35	7 28
Muslin Skirt.....	0 30	7 1
Drawers.....	0 28	4 6
Night Dress.....	1 7	10 2
Silk Apron.....	0 15	4 16
Plain Apron.....	0 9	1 26

NUMBER OF STITCHES MADE PER MINUTE.

	By Hand.	With Machine.	Ratio.
Stitching fine Linen.....	23	640	28
Stitching Satin.....	24	520	22
Stitching Silk.....	30	550	18
Seaming fine Cloth.....	18	504	15
Patent Leather, fine Stitching, 7	7	175	25
Fitting Ladies' Gaiters.....	28	510	18
Stitching Shoe Vamps.....	10	210	21
Binding Hats.....	33	874	11

When the machines are driven by power, the ratio is much higher—1,500 and 2,000 stitches per minute not being an unusual average.

Think how much time is saved by using the machines.

MATHEMATICAL PROBLEMS.

The proportion of thread used in making the various stitches is as follows:

"Lock Stitch," 1; "Chain Stitch," 1 8-10ths; "Double Chain Stitch," 2 5-10ths.

Prob. 1. If a "Lock Stitch" machine uses 10 cents worth of thread and silk in a day, how much would it use in a year of 300 working days? Answer, \$30.

Prob. 2. How much would a "Chain Stitch" machine use in doing the same amount of sewing. Ans., \$54 worth.

Prob. 3. How much would a "Double Chain Stitch" machine use in doing the same amount of sewing? Ans., \$75 worth.

Prob. 4. There will be ultimately at least a million of sewing machines used in the country; at the above rate, what value of thread and silk would be used annually if all of one kind were used? Ans. "Lock Stitch," \$30,000,000; "Chain Stitch," \$54,000,000; "Double Chain Stitch," \$75,000,000.

Prob. 5. What value of thread would be wasted by the "Chain Stitch?" Ans. \$24,000,000.

Prob. 6. What value would be wasted by the "Double Chain Stitch?" Ans. \$45,000,000.

Prob. 7. If there be 6,000,000 families in the United States, how much would it cost to send each a weekly newspaper at \$1.50. Ans. 9,000,000.

Prob. 8. How much to send a monthly Magazine at \$2.00 Ans. \$12,000,000.

Prob. 9. How much would remain of the \$45,000,000 of waste, for Missionary, Educational and Charitable purposes. Ans. 24,000,000.

Is it wicked to waste things. Yes.

Then what sewing machine should be used? Ans. "WHEELER & WILSON'S LOCK STITCH SEWING MACHINE."